

Title (en)  
SHAPE INJECTION INTO ULTRASOUND IMAGE TO CALIBRATE BEAM PATTERNS IN REAL-TIME

Title (de)  
FORMINJEKTION IN EIN ULTRASCHALLBILD ZUR KALIBRIERUNG VON STRAHLENMUSTERN IN ECHTZEIT

Title (fr)  
INJECTION D'UNE FORME DANS UNE IMAGE ULTRASONORE DE FAÇON À ÉTALONNER EN TEMPS RÉEL DES MOTIFS DE FAISCEAU

Publication  
**EP 3013245 B1 20190612 (EN)**

Application  
**EP 14752398 A 20140630**

Priority  
• US 201361840503 P 20130628  
• IB 2014062714 W 20140630

Abstract (en)  
[origin: WO2014207728A1] A system for highlighting an instrument in an image includes a probe (122) for transmitting and receiving ultrasonic energy to and from a volume and a marker device (120) configured to respond to a received ultrasonic signal and emit an ultrasonic signal after a delay. The ultrasonic signal includes one or more pulses configured to generate a marker, when rendered, of a given size at a position within an image. A medical instrument (102) is disposed in the volume and includes the marker device. A control module (124) is stored in memory and is configured to interpret the ultrasonic energy received from the probe and from the marker device to determine a three dimensional location of the medical instrument and to highlight the three dimensional location of the marker device with the marker in the image.

IPC 8 full level  
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